
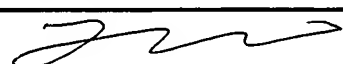
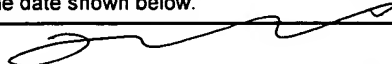


FW ✓

	Application Number	10/561,324
	Filing Date	February 20, 2005
	First Named Inventor	Brian A. Kraynack
	Art Unit	To Be Determined
	Examiner Name	To Be Determined
Total Number of Pages in This Submission	Attorney Docket Number	ISIC0035-100 (CHEM0021 USA)

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Forms PTO SB/08a and SB/08b (5 pp.); (111) References Cited, (20) References Enclosed.
<div style="border: 1px solid black; display: inline-block; padding: 2px; margin-bottom: 5px;">Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	Cozen O'Connor		
Signature			
Printed Name	Feng Shao		
Date	June 21, 2006	Reg. No.	54,733

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Feng Shao, Registration No. 54,733	Date	June 21, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

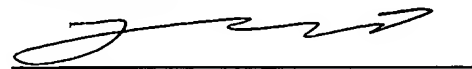
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: **Brian A. Kraynack et al.**

Serial No.: 10/561,324

Group Art Unit: **To Be Determined**Filing Date: **February 20, 2005**Examiner: **To Be Determined****For: DOUBLE STRANDED COMPOSITIONS COMPRISING A 3'-ENDO
MODIFIED STRAND FOR USE IN GENE MODULATION**

I certify that this correspondence is being deposited with
the U.S. Postal Service as First Class mail in an
envelope addressed to the Commissioner for Patents,
PO Box 1450, Alexandria, VA, 22313-1450.

On June 21, 2006

Feng Shao, Registration No. 54,733

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56 and in accordance with 37 C.F.R. §§ 1.97 and 1.98, information relating to the above-identified application is hereby disclosed, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO Forms SB/08A and SB/08B, formerly known as PTO Form 1449, submitted herewith.

Inclusion of the information submitted herewith is not to be construed as an admission that the information is material as that term is defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being filed:

- ☐ within three months of the filing date of the patent application.
- ☐ within three months of the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 of the international application.
- ☒ **before the mailing date of a first Office Action on the merits.**

- ☐ after the mailing date of a first Office Action on the merits, but before the mailing date of a Final Office Action under 37 C.F.R. § 1.116 or a Notice of Allowance under 37 C.F.R. § 1.311, and accordingly is accompanied by:
- ☐ the Statement under 37 C.F.R. § 1.97(e) (see "Statement" below);
- or
- ☐ the Fee of \$180.00 set forth in 37 C.F.R. § 1.17(p); or
- ☐ No fee is owed by the applicant(s).
- ☐ In accordance with 37 C.F.R. § 1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, and accordingly is accompanied by the Statement under 37 C.F.R. § 1.97(e) (see "Statement" below) and the fee of \$180.00 as set forth in 37 C.F.R. § 1.17(p), is attached.
- ☐ after the mailing date of a Final Office Action under 37 C.F.R. § 1.116 or a Notice of Allowance under 37 C.F.R. § 1.311, but before the payment of the Issue Fee, and accordingly is accompanied by the Statement under 37 C.F.R. § 1.97(e), (see "Statement," and "Fees" below).
- ☒ Copies of the references (except the U.S. Patent Documents) listed on the attached PTO Forms SB/08a and SB/08b, formerly known as PTO Form 1449, are enclosed.

EXCEPT THAT:

- ☐ In view of the voluminous nature of reference @@, and the likelihood that this reference is available to the Examiner, copies are not enclosed herewith.
- ☐ In accordance with 37 C.F.R. § 1.98(d), copies of the following references listed on the attached PTO Form SB/08A and PTO Form SB/08B, formerly known as PTO Form 1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application.

- ☐ If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

Statement under 37 C.F.R. § 1.97(e)

- ☐ The undersigned attorney hereby states that each item information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.

Fees

- ☒ No Fee is owed by the applicant(s).
- ☐ The Information Disclosure Statement Fee of \$180.00 under 37 C.F.R. § 1.17(p) is enclosed herewith.

Method of Payment of Fees

- ☐ Attached is a check in the amount of \$_____. This form is submitted in duplicate.
- ☐ Charge Deposit Account No. 50-1275 in the amount of \$180.00. This form is submitted in duplicate.
- ☒ Please charge any deficiency or credit any overpayment to Deposit Account 50-1275.
- ☐ No fee or Statement is required under 37 C.F.R. § 1.97(b).

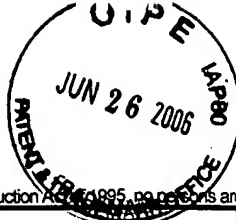
Respectfully submitted,



Feng Shao
Registration No. 54,33

Dated: June 21, 2006

COZEN O'CONNOR, P.C.
1900 Market Street, 5th Floor
Philadelphia, PA 19103-3508
(215) 665-2000 – Telephone
(215) 701-2013 - Facsimile



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

5

Complete if Known

Application Number	10/561,324
Filing Date	February 20, 2005
First Named Inventor	Brian A. Kraynack
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ISIC0035-100 (CHEM0021 USA)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication/Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	AA	US-5,898,031	04-27-1999	Crooke et al.	
	AB	US-6,107,094	08-22-2000	Crooke et al.	
	AC	US-5,013,830	05-07-1991	Eiko	
	AD	US-5,149,797	09-22-1992	Pederson	
	AE	US-5,220,007	06-15-1993	Pederson	
	AF	US-5,256,775	10-26-1993	Froehler	
	AG	US-5,366,878	11-22-1994	Pederson	
	AH	US-5,403,711	04-04-1995	Walder	
	AI	US-5,491,133	02-13-1996	Walder	
	AJ	US-5,565,350	10-15-1996	Kmiec	
	AK	US-5,623,065	04-22-1997	Cook	
	AL	US-5,652,355	07-29-1997	Meteliev	
	AM	US-5,652,356	07-29-1997	Agrawal	
	AN	US-5,700,922	12-23-1997	Cook	
	AO	US-4,981,957	01-01-1991	Lebleu	
	AP	US-5,118,800	06-02-1992	Fung	
	AQ	US-5,319,080	06-07-1994	Leumann	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date/Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	AR	WO 00/44895	08-03-2000	Kreutzer, et al.		
	AS	WO 00/49035	08-24-2000	General Hospital		
	AT	WO 00/63364	10-26-2000	Am. Home Prod.		
	AU	WO 01/36641	05-25-2001	Chiron Corp.		
	AV	WO 01/36646	05-25-2001	Cancer Res. Campaign Tech.		
	AW	WO 99/32619	07-01-1999	Carnegie Inst.		
	AX	WO 00/44914	08-03-2000	Med. Coll of Georgia		
	AY	WO 01/29058	04-26-2001	Univ of MA		
	AZ	WO 01/75164	10-11-2001	Whitehead Inst.		

Examiner
SignatureDate
Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/561,324
				Filing Date	February 20, 2005
				First Named Inventor	Brian A. Kraynack
				Art Unit	To Be Determined
				Examiner Name	To Be Determined
				Attorney Docket Number	ISIC0035-100 (CHEM0021 USA)
Sheet	2	of	5		

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication/Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	BA	US-5,359,044	10-25-1994	Cook	
	BB	US-5,393,878	02-28-1995	Leumann	
	BC	US-5,446,137	08-29-1995	Maag	
	BD	US-5,466,786	11-14-1995	Buhr	
	BE	US-5,514,785	05-07-1996	Van Ness	
	BF	US-5,519,134	05-21-1996	Acevedo	
	BG	US-5,567,811	10-22-1996	Misiura	
	BH	US-5,576,427	11-19-1996	Cook	
	BI	US-5,591,722	01-07-1997	Montgomery	
	BJ	US-5,597,909	01-28-1997	Urdea	
	BK	US-5,610,300	03-11-1997	Altmann	
	BL	US-5,627,053	05-06-1997	Usman	
	BM	US-5,639,873	06-17-1997	Barascut	
	BN	US-5,646,265	07-08-1997	Mcgee	
	BO	US-5,658,873	08-19-1997	Bertsch-Frank	
	BP	US-5,670,633	09-23-1997	Cook et al.	
	BQ	US-5,792,747	08-11-1998	Schally	
	BR	US-5,700,920	12-23-1997	Altmann	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3 of 5

Complete if Known

Application Number	10/561,324
Filing Date	February 20, 2005
First Named Inventor	Brian A. Kraynack
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ISIC0035-100 (CHEM0021 USA)

U.S. PATENT DOCUMENTS

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		Number - Kind Code ² (if known)			
	BS	US-4,828,979	05-09-1989	Klevan	
	BT	US-4,948,882	08-14-1990	Ruth	
	BU	US-5,218,105	06-08-1993	Cook	
	BV	US-5,525,465	06-11-1996	Haralambidis	
	BW	US-5,541,313	07-30-1996	Ruth	
	BX	US-5,545,730	08-13-1996	Urdea	
	BY	US-5,552,538	09-13-1996	Urdea	
	BZ	US-5,578,717	11-26-1996	Urdea	
	CA	US-5,580,731	12-03-1996	Chang	
	CB	US-5,591,584	01-07-1997	Chang	
	CC	US-5,109,124	04-28-1992	Ramathandran	
	CD	US-5,118,802	06-02-1992	Smith	
	CE	US-5,138,045	08-11-1992	Cook	
	CF	US-5,414,077	05-09-1995	Lin	
	CG	US-5,486,603	01-23-1996	Bahr	
	CH	US-5,512,439	04-30-1996	Hornes	
	CI	US-5,578,718	11-26-1996	Cook	
	CJ	US-5,608,046	03-04-1997	Cook	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date/Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4 of 5

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Application Number	10/561,324
Filing Date	February 20, 2005
First Named Inventor	Brian A. Kraynack
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ISIC0035-100 (CHEM0021 USA)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication/Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	CK	US-4,587,044	05-06-1986	Miller	
	CL	US-4,605,735	08-12-1986	Miyoshi	
	CM	US-4,667,025	05-19-1987	Miyoshi	
	CN	US-4,762,779	08-09-1988	Snitman	
	CO	US-4,789,737	12-06-1988	Miyoshi	
	CP	US-4,824,941	04-25-1989	Gordon	
	CQ	US-4,835,263	05-30-1989	Nguyen	
	CR	US-4,876,335	10-24-1989	Yamane	
	CS	US-4,904,582	02-27-1990	Tullis	
	CT	US-4,958,013	09-18-1990	Letsinger	
	CU	US-5,082,830	01-21-1992	Brakel	
	CV	US-5,112,963	05-12-1992	Pieles	
	CW	US-5,214,136	05-25-1993	Lin	
	CX	US-5,082,830	01-21-1992	Brakel	
	CY	US-5,245,022	09-14-1993	Weis	
	CZ	US-5,254,469	10-19-1993	Warren	
	DA	US-5,258,506	11-02-1993	Urdea	
	DB	US-5,262,536	11-16-1993	Hobbs	
	DC	US-5,272,250	12-21-1993	Spielvogel	
	DD	US-5,292,873	03-08-1994	Rokita	
	DE	US-5,317,098	05-31-1994	Shizuya	
	DF	US-5,371,241	12-06-1994	Brush	
	DG	US-5,391,723	02-21-1995	Priest	
	DH	US-5,416,203	05-16-1995	Letsinger	
	DI	US-5,451,463	09-19-1995	Nelson	
	DJ	US-5,510,475	04-23-1996	Agrawal	
	DK	US-5,512,667	04-30-1996	Reed	
	DL	US-5,514,785	05-07-1996	Van Ness	
	DM	US-5,565,552	10-15-1996	Magda	
	DN	US-5,567,810	10-22-1996	Weis	
	DO	US-5,574,142	11-12-1996	Meyer	
	DP	US-5,585,481	12-17-1996	Arnold	
	DQ	US-5,587,371	12-24-1996	Sessler	
	DR	US-5,595,726	01-21-1997	Magda	
	DS	US-5,597,696	01-28-1997	Linn	
	DT	US-5,599,923	02-04-1997	Sessler	
	DU	US-5,599,925	02-04-1997	Torii	
	DV	US-5,688,941	11-18-1997	Cook	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 5

Complete if Known

Application Number	10/561,324
Filing Date	February 20, 2005
First Named Inventor	Brian A. Kraynack
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ISIC0035-100 (CHEM0021 USA)

NON PATENT LITERATURE DOCUMENTS

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	DW	Boutla et al., "Short 5'-phosphorylated double-stranded RNAs induce RNA interference in <i>Drosophila</i> ," <i>Curr Biol</i> (2001) 11(22):1776-1780.	
	DX	Brantl "Antisense-RNA regulation and RNA interference," <i>Biochimica et Biophysica Acta</i> (2002) 1575(1-3):15-25.	
	DY	Chiu et al., "siRNA function in RNAi: a chemical modification analysis," <i>RNA</i> (2003) 9:1034-1048.	
	DZ	Elbashir et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs," <i>Genes Dev</i> (2001) 15(2):188-200.	
	EA	Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <i>Nature</i> (2001) 411(6836):494-498.	
	EB	Elbashir et al., "Functional anatomy of siRNAs for mediating efficient RNAi in <i>Drosophila melanogaster</i> embryo lysate," <i>EMBO</i> (2001) 20(23):6877-6888.	
	EC	Martinez et al., "Single-stranded antisense siRNAs guide target RNA cleavage in RNAi," <i>Cell</i> (2002) 110(5):563-574.	
	ED	Mellitzer et al., "Spatial and temporal 'knock down' of gene expression by electroporation of double-stranded RNA and morpholinos into early postimplantation mouse embryos," <i>Mechanisms of Development</i> (2002) 118(1-2):57-63.	
	EE	Parrish et al., "Functional anatomy of a dsRNA trigger: differential requirement for the two trigger strands in RNA interference," <i>Molecular Cell</i> (2000) 6(5):1077-1087.	
	EF	Schwarz et al., "Evidence that siRNAs function as guides, not primers, in the <i>Drosophila</i> and human RNAi pathways," <i>Molecular Cell</i> (2002) 10(3):537-548.	
	EG	Tuschl et al., "Targeted mRNA degradation by double-stranded RNA in vitro," <i>Genes Dev</i> (1999) 13(24):3191-3197.	

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